222 South Riverside Plaza Suite 820 Chicago, IL 60606 Telephone: 312-575-0200 Fax: 312-575-0300

October 19, 2001

Ms. Gwen Zervas
Case Manager
New Jersey Department of Environmental Protection (NJDEP)
Bureau of Federal Case Management
Division of Responsible Site Party Remediation
CN 028
Trenton, NJ 08625-0028

Subject: L.E. Carpenter & Company (LEC), Wharton, NJ – NJD002168748
Results of MW19/Hot Spot 1 Area Well Installation and Groundwater Sampling
RMT Project No. 00-03868.25

Dear Ms. Zervas:

RMT, Inc. (RMT) prepared this letter report on behalf of L.E. Carpenter and Company (LEC) for their facility located in Wharton, New Jersey (Figure 1). We describe installation of a groundwater monitoring well required by the New Jersey Department of Environmental Protection (DEP) and the United States Environmental Protection Agency Region II (EPA). This report also summarizes the results of groundwater sampling conducted in the MW-19 area on August 1 and 2, 2001, and laboratory testing of the groundwater samples.

RMT installed, developed, and sampled monitoring well MW19-9D, which we designed to monitor a deeper portion of the shallow groundwater. Installation of this well was required based on letters from DEP dated April 13 and August 1, 2000. Based on a conversation that we had on June 20, 2001, and as described in our June 27, 2001 letter, DEP/EPA stated that additional shallow wells requested in the April 13 and August 1 letters were unnecessary. The well specifications for MW19-9D are in accordance with RMT's workplan dated October 2000 and in our letter dated February 13, 2001.

1. Monitoring Well Locations

Figure 2 shows the location of all the MW-19 area monitoring wells. Following the recent installation of MW19-9D, a NJ licensed surveyor surveyed the well and site. Figure 2 incorporates the newly surveyed features and resulting base-map that accurately represents the location of each well, and nearby buildings, utilities, fences, and streets. The surveyor also measured the top of casing elevation for the new and selected existing wells.

2. Groundwater Flow

Figure 2 depicts the MW-19 hot-spot area groundwater-elevation contours, which again verify that the regional sewer line intercepts and locally controls the direction of shallow groundwater flow. RMT has evaluated groundwater flow in this area using data from measuring events we conducted in January, April, July, and October 2000, and January, April, and July (this report) 2001. The flow direction in this area is consistent for each of those sampling events (for example, compare groundwater contours on Figures 3 and 4 in this report). Groundwater flow at the northwest end of Building 9 is northeastward to east under a hydraulic gradient of approximately 0.0017 ft/ft.

3. New Well MW19-9D

The new well MW19-9D was installed and developed on July 10th and 11th, and is located on Figure 3. The geologic and well completion log is in Attachment 1. The reason LEC installed the well was to assure DEP/EPA that no contaminated groundwater was flowing under the regional-sewer toward the residences on the north side of Ross Street. In the field before drilling commenced, the on-site NJDEP representative approved the location of this new well. Summit Drilling Company used an air-rotary rig to drill the borehole used to construct the well. We specified the use of the air rotary method because tight cobble-bearing formations are typically present that often prevent successful drilling by hollow stem auger techniques. We designed and installed the screened portion of the well as specified in our February 13, 2001 letter, from 15 to 25 feet below the shallow water table (from 25 to 35 feet below grade).

4. Delineation of Groundwater Contamination

Table 1 summarizes concentrations of benzene, toluene, ethylbenzene, and xylene (BTEX) and di-ethylhexyl phthalate (DEHP) for all of the MW-19 area groundwater monitoring wells. RMT sampled groundwater from the MW-19 area wells on August 1 and 2, 2001; approximately three weeks after we installed and developed new well MW19-9D. The data show that concentrations of BTEX and DEHP have decreased since 1998 and 1999.

The DEHP concentrations are all substantially lower than concentrations measured in 1998 and 1999, except for MW19-2 which shows a slight increase. In fact, the New Jersey groundwater quality standard (NJDWQS) for DEHP is now only exceeded in one well, MW19-1. None of the groundwater from monitoring wells downgradient from MW19-1 exceeds the NJGWQS. MW19-1 is located close to the former 10,000-gallon underground storage tanks (UST's E-3 and E-4) that likely were responsible for releasing some of the DEHP and BTEX constituents. However, these former UST's are no longer a source for DEHP and BTEX contamination in this area because LEC removed them in 1991. In addition, the LEC printing processes and material storage practices that occurred in Bldg 9 that may have resulted in releases of both DEHP and BTEX were stopped in 1987. Finally, there is no free product in this area. Therefore, there is no longer any active primary source for DEHP or BTEX remaining in the MW-19 Hot-Spot 1 area. The decrease in concentrations also supports a lack of ongoing sources of contamination and suggests that dissolved contaminants are naturally attenuating.

Figure 3 shows isoconcentration contours for total BTEX levels in ppm (mg/L) with respect to the groundwater elevation contours. The isoconcentration lines are in general agreement with the groundwater flow direction. Figure 4 shows the isoconcentration contours for total BTEX we submitted in our May 15, 2000 letter. Figures 3 and 4 show that the concentrations of BTEX in August 2001 have decreased substantially since 1998/1999.

No BTEX or DEHP were detected in MW19-9D (Table 1). This shows that there is no migration of these constituents downward and to the north under Ross Street and the regional interceptor sewer. In addition, the lack of downward migration of contaminants is evidenced by the hydraulic data we discuss below.

Table 2 lists the monitoring well specifications, and includes water level measurements and groundwater elevations. Although DEP/EPA retracted their earlier requirement to pair a shallow well with MW19-9D, we installed it only about 12 feet north of MW19-6 because of access issues. The driller had to conform to OSHA requirements and maintain a safe distance from the overhead power lines that overhang the north side of Ross Street. As stated above, the on-site DEP representative approved the well location in the field before drilling commenced. The closeness of MW19-6 and MW19-9D allows

us to make a general comparison between groundwater elevations versus screened interval and to evaluate the vertical gradient. The hydraulic head at MW19-9D is 0.4 feet higher than at MW19-6, indicating a significant upward vertical gradient. An upward vertical gradient is consistent with all other deep/shallow well clusters across the site. As you know, RMT earlier predicted an upward vertical gradient for this location because of the other site well-cluster data (including nearby piezometers GEI-2I and GEI-2S), and because of the proximity of the regional sewer line, which locally controls shallow groundwater flow. The vertical distance between the middle of the MW19-6 and the MW19-9D well screens is 15 feet (Table 2). Given the difference in hydraulic head between the two wells, the upward vertical hydraulic gradient is about 0.4 ft/15 ft., or 0.027 ft/ft. This is an order of magnitude greater than the horizontal hydraulic gradient of 0.0017 measured for this area.

The groundwater flow directions and contaminant distributions both show that the current group of wells are adequate to monitor groundwater quality within and downgradient from the MW-19/Hot Spot 1 area at LEC.

RMT believes there is no need to perform additional delineation work in the MW-19/Hot Spot 1 area. We recommend conducting future groundwater monitoring in this area as part of the site-wide groundwater-monitoring program. Details of our recommendations for future continued monitoring in this area are included in our May 2001 workplan for evaluating Monitored Natural Attenuation (MNA) for dissolved phase constituents.

We are also supplying additional details in a separate letter responding to your review of the MNA workplan.

Sincerely,

RMT, Inc.

Nicholas J. Clevett Project Manager

Jim DENTES

James J. Dexter Project Director

Attachments:

Figure 1

Site Location Map

Figure 2

MW-19 Hot-Spot 1 Groundwater Elevation Contours for July 2001.

Figure 3

Isoconcentration Contours for Total BTEX (PPM) in Shallow Groundwater at the MW19/Hot Spot Area; August 2001.

Figure 4

Isoconcentration Contours for Total BTEX (PPM) in Shallow Groundwater at the MW19/Hot Spot Area; 1998 and 1999.

Table 1
Table 2

MW19/Hot Spot 1 Groundwater Monitoring Data

1 able 2

MW19/Hot Spot 1 Water Levels and Groundwater Elevations

Attachment 1

Report Certification

Attachment 2

Geologic and Well Completion Log for MW19-9D

Attachment 3

Well Permit, Monitoring Well Record & MW19-9D Form B Location

Certification

Attachment 4

Laboratory Analytical Data

cc: Cris Anderson (LEC) Stephen Cipot (USEPA) Drew Diefendorf (RMT) Eric Swanson (RMT) Central Files (2) <u>Table 1</u>
MW19/Hot Spot 1 Groundwater Monitoring Data

TABLE 1

L.E. CARPENTER - Wharton, New Jersey MW19/Hot Spot 1 Groundwater Monitoring Data

	SAMPLIN	CHEMICAL ANALYSIS RESULTS					ABOVE NJGWQS ?					
MONITORING WELLS	DATE	QUARTER	Benzene	Ethylbenzene ug/l	Toluene ug/l	Total Xylenes ug/l	bis-2-Ethylhexylphthalate (DEHP)					
		L	ug/l				ug/l	Benzene	Ethylbenzene	Toluene	Total Xylenes	his-2-Ethylhexylphthalate (DEH
NEW JERSEY GROUNDWA	TER QUALITY STAP	NDARDS (NJCWQS)	1	700	1,000	40	30		,			
MW19								1				
Dilution factor for BTEX 2000	24-Feb-95	1	<660	1700	110000	10000	NS	YES	YES	YES	YES	-
Dilution factor for BTEX 100	14-Jun-95	2	<150	3400	140000	17000	NS	YES	YES	YES	YES	
Dilution factor 5000 for BTEX & 2 for DEHP; MDL for Benzene 1000 ug/l	23-Apr-98	2	<1000	2850	76700	14900	6.6	YES	YES	YES	YES	NO
Dilution factor for BTEX 500.	02-Aug-01	3	<95	3000	62000	17000	2.9	YES	YES	YES	YES	NO
								<u> </u>		ļ		
MW19-1					***************************************			VE0-		1/50	\	Vra
Dilution factor for BTEX 200	12-Mar-98	1	- <40	219	4270	1160	190	_YES_	NO	_YES_	YES	YES
	02-Aug-01	3	<0.2	1.2	<0.2	<0,2	85	NO	NO	NO	NO:	YES
MW19-2												
Dilution factor for BTRX 250	12-Mar-98	1	<50	1120	9830	6010	8.8	YES	YES	YES	YES	NO
Dilution factor for BIEX 2	01-Aug-01	3	<0.4	21	160	82	16	-NO	NO	NO	YES	NO
					APR		and the second s	F 7				
MW19-3												
~	12-Mar-98	1	<0.2	<0.14	<0.14	<0.5	<1.2	NO	NO	NO	NO.	NO
	02-Aug-01	3	<0.2	<0.2	<0.2	<0,2	<0.5	NO	NO	NO	NO	NO
MW19-4												
	12-Mar-98	1	<0.2	<0.14	<0.14	<0,5	<1.3	NO	NO	NO	NO.	NO
	02-Aug-01	3	<0.2	<0.2	<0.2	<0.2	<0.5	NO	NO	NO	NO	NO
	02 11ug 01				79,5	77.7	3,7,6		7.7			
MW19-5												
Dilution factor for BTEX 5000	12-Mar-98	1	<1000	1,920	123,000	10,100	42	YES	YES	YES	YES	YES
Dilution factor for BTEX 1000	02-Aug-01	3	<190	870	79,000	5,200	3.2	YES	YES	YES	YES	NQ
MW19-6			· · · · · ·						-	 		
Dilution factor for BTEX 200	15-Nov-99	4	<62	94	3.400	500	32	YES	NO	YES	YES	YES
Dilution factor for BTEX 2	01-Aug-01	3	<0.4	14	390	47	28	NO	NO	NO	YES	NO
3.471740.77									-			1
MW19-7	10 Mt '00	 	-17	100	r4	1,400		YES	NO	NO	YES	NO
Dilution factor for BTRX 50 Dilution factor for BTRX 2	15-Nov-99 01-Aug-01	3	<16 6.7	100	51 13	680	<4.1 <0.4	YES	NO NO	NO	YES	NO NO
Danidon lactor for BIRA 2	01-WIK-01	, J	****		1.5		N,T	1.20	†	,,,		110
MW19-8												
Dilution factor for BTEX 50	15-Nov-99	4	<0.31	<0.38	<0.34	<0.40	<4.1	NO	NO	NO	NO	NO
Dilution factor for BTEX 2	01-Aug-01	3	<0.5	<0.2	<0.2	<0.2	<0.4	NO	NO	NO	NO	NO
MW19-9D	,•								 	<u> </u>		
Dilution factor for BTBX 2	01-Aug-01	3	<0.2	<0.2	<0.2	<0.2	<0.5	NO	NO	NO	NO	NO

Concentration exceeds NJGWQS

<u>Table 2</u>
MW19/Hot Spot 1 Water Levels and Groundwater Elevations

TABLE 2

MW19/Hot Spot 1 Water Level Elevations L.E. Carpenter, Wharton, New Jersey

WELL				WELL	INSTALLATION AN	D CONSTRUCTIO	ON INFORMA	MOIT				PROI	ESSIONAL SURVE	Y INFORMATION		ELEVA	IONS (FI.	MSL)			Q	UARTERLY ME	ASUREMENT I	NFORMATION	
LOCATION	WELL TYPE	MANAGING	INSTALLATION	TOTAL WELL	WELL	SCREEN	SLOT	TOP OF	BOTTOM OF	SCREENED	AQUIFER	BASELINE LOCA	TION (feet) ⁽¹⁾	GEODETIC	LOCATION		OUTER	INNER	MEAS.	PRODUCT	WATER	PRODUCT	WATER	PRODUCT	CORRECTED WATER
		CONSULTANT	DATE	DEPTH (FI)	DIAMETER (IN)	MATERIAL	SIZE (IN)	SCREEN (FT)	SCREEN (FT)	INTERVAL (FI)	SYSTEM	(Y) North	(X) East	LATTIUDE	LONGITUDE	GROUND	CASING	WELL	DATE	DEPTH	DEPTH	ELEVATION	ELEVATION	THICKNESS (ft)	LEVEL ELEVATIONS
GEI-2I	Piezometer	ROY F. WESTON	April to October 1989	46.28	2.00	PVC	0.02	31:50	41.50	10.00	I	754573.99	470499.76	40° 54' 17.4"	74 ⁰ 34' 43.1"	635.92	638.35	638.20	24-Jul-01		11,51	-	626.69	-	•
				- :												635.92	638.35	638.20	01-Aug-01	-	NM	-	-	-	•
GEI-28	Piezometer	ROY F. WESTON	April to October 1989	22.21	2.00	PVC	0.02	10.00	20.00	10.00	S	754566.00	470506.18	40 ⁰ 54' 17.3"	74 ⁰ 34' 43.0"	635.46	637.87	637.67	24-Jul-01	· -	11.31	- 1	626.36	-	
																635.46	637.87	637.67	01-Aug-01	-	NM	-		-	•
MW-16S	Monitoring Well	ROY F. WESTON	April to October 1989	23,90	4.00	STEEL	0.02	7.37	17.41	10.00	S	754424.11	470704.10	40° 54' 15.9°	74 ⁰ 34' 40.4"	632.57	634.69	634.47	24-Jul-01		8.52	-	625,95	- 1	-
														·		632.57	634.69	634.47	01-Aug-01	-	NM	-	•	-	•
MW-161	Monitoring Well	ROY F. WESTON	April to October 1989	46,53	2.00	STEEL	0.02	32.22	42.26	10.00	I	754435.10	470710.17	40 ⁰ 54' 16.0"	74 ⁰ 34' 40.3"	632.43	635.08	634.96	24-Jul-01		9.01	-	625.95	-	•
																632.43	635.08	634.96	01-Aug-01	-	NM	•	-	- 1	•
MW-19	Monitoring Well	ROY F. WESTON	May 20, 1991	17.00	4.00	STEEL	0.02	7.00	17.00	10.00	S	754537.15	470454.45	40 ⁰ 54' 17.1"	74 ⁰ 34' 43.7"	636.72	639.24	638,88	24-Jul-01	-	12.47	-	626.41	•	•
																636.72	639.24	638.88	02-Aug-01		12.82	-	626.06		•
MW-19-1	Monitoring Well	RMT, INC.	February 17, 1998	17.00	4.00	STEEL	0.01	6.00	15.50	9.50	S	754534.52	470427.63	40° 54' 17:0"	74 ⁰ 34' 44.0"	636.50	639.26	638.86	24-Jul-01	-	12.45		626.41	-	•
																636.50	639.26	638.86	02-Aug-01	-	12.80	- 1	626.06	•	•
MW-19-2	Monitoring Well	RMT, INC.	February 17, 1998	16.00	4.00	STEEL	0.01	6.00	16.00	10.00	S	754551.81	470429.56	40° 54' 17.2"	74 ⁰ 34' 44.0"	637.05	639.36	638.76	24-Jul-01	-	12.34		626.42	-	-
																637.05	639,36	638.76	01-Aug-01	-	12.66		626.10	-	•
MW-19-3	Monitoring Well	RMT, INC.	February 18, 1998	16.00	4.00	STEEL	0.01	6,00	15.50	9.50	S	754539.40	470394.20	40° 54' 17.1°	74 ⁰ 34' 44.5"	637.54	640.04	639.65	24-Jul-01		13.20		626.45	-	•
																637.54	640.04	639.65	02-Aug-01	-	13.54		626.11		•
MW-19-4	Monitoring Well	RMT, INC.	February 18, 1998	16.00	4.00	STEEL	0.01	6.00	15.50	9.50	5	754505.39	470432.08	40° 54' 16.7"	74 ⁰ 34' 44.0"	636.27	638.44	637.74	24-jul-01	-	11.24		626.50	-	•
				,												636:27	638.44	637:74	02-Aug-01	-	11.59	-	626.15	-	•
MW-19-5	Monitoring Well	RMT, INC.	February 18, 1998	16.00	2.00	PVC	0.01	6.00	15.50	9.50	S	754565.53	470470.75	40° 54' 17.3°	74 ⁰ 34' 43.5"	636.39	639.07	638.74	24-Jul-01	-	12.39	-	626.35	-	
				ŧ.												636.39	639.07	638.74	02-Aug-01	i _	12.75	-	625.99	- 1	•
MW-19-6	Monitoring Well	RMT, INC.	October 28, 1999	20.00	2.00	STEEL	0.02	10.00	20.00	10.00	s	754578.87	470443.10	40 ⁰ 54 ⁱ 17.5"	74 ⁰ 34' 43.8"	636.78	636.78	636.44	24-Jul-01	-	10.03		626.41	-	•
																636.78	636.78	636.44	8//1/01		10.35		626.09	•	•
MW-19-7	Monitoring Well	RMT, INC.	October 29, 1999	20.00	2.00	STEEL	0.02	10.00	20.00	10.00	s	754595.66	470501.70	40° 54' 17.6"	74 ⁰ 34' 43.1"	636.00	636.00	635.60	24-Jul-01	-	9,27		626.33	-	-
														·		636.00	636.00	635.60	:01-Aug-01		9.60		626.00	-	-
MW-19-8	Monitoring Well	RMT, INC.	October 28, 1999	20.00	2.00	STEEL	0.02	11.00	20.00	9.00	s	754617.42	470493.65	40 ⁰ 54' 17.8"	74 ⁰ 34' 43.2"	636,44	636.44	635,96	24-Jul-01	-	9.63	-	626.33	-	•
							:									636.44	636.44	635.96	01-Aug-01	-	9,56	-	626.40	-	•
MW19-9D ⁽³⁾	Monitoring Well	RMT, INC.	July 10, 2001	35.00	2.00	STEEL	0.02	25.00	35.00	10.00	s	754590.49	470441.86	40°54'17.9"	74 ⁰ 34' 42.4"	636.99	637.01	636.70	24-Jul-01	-	NM			-	•
																636.99	637.01	636,70	01-Aug-01	-	10.21	-	626:49	-	•
MW-20	Monitoring Well	ROY F. WESTON	May 21, 1991	14.00	4.00	STEEL	0.02	4.00	14.00	10.00	s	754550,52	470647.25	40° 54' 17.2°	74 ⁰ 34' 41.2"	634.82	637.03	636.77	24-Jul-01		10.57	-	626.20	-	•
																634.82	637.03	636.77	01-Aug-01		NM	-	· -		-

FOOTNOTES

(1) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NGVD 29

(2) All elevation measurements were taken during the 3rd quarter monitoring event conducted by STL Edison

(3) MW19-9D not included in Potentiometric surface evaluation as the well was screened in a deeper interval within the shallow system

5: Shallow Water Bearing Unit

I: Intermediate Water Bearing Unit

NM: Not Measured

Figure 1
Site Location Map

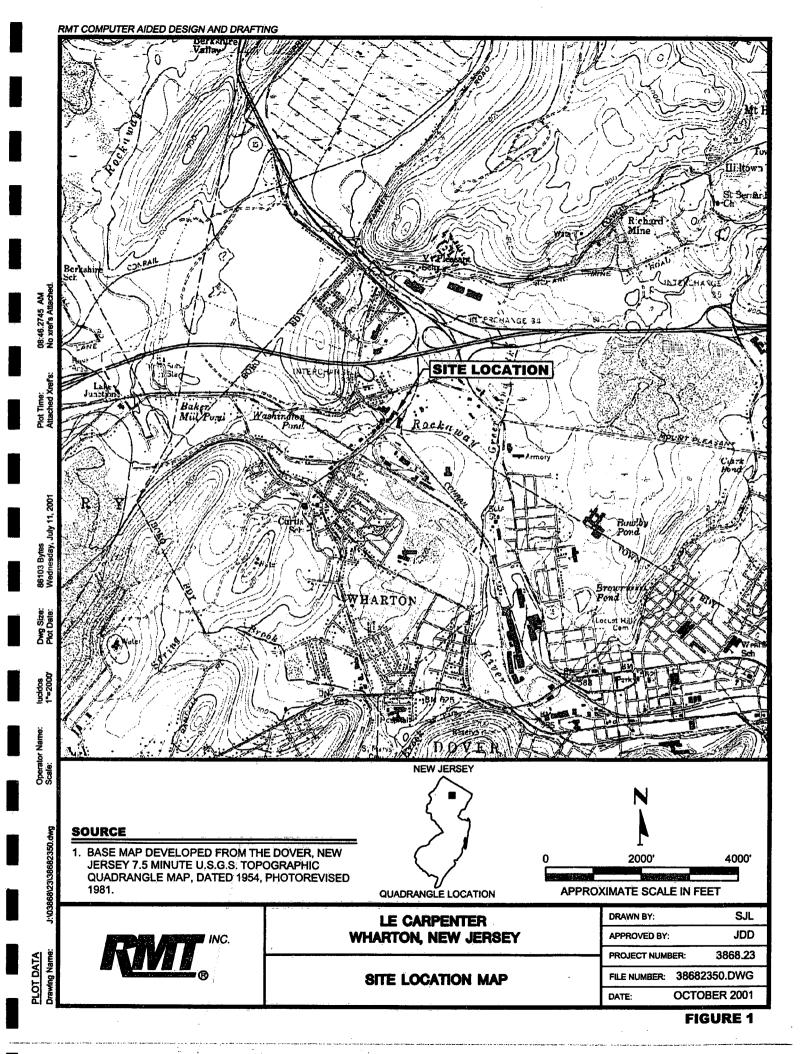


Figure 2

MW-19 Hot-Spot 1 Groundwater Elevation Contours for July 2001.

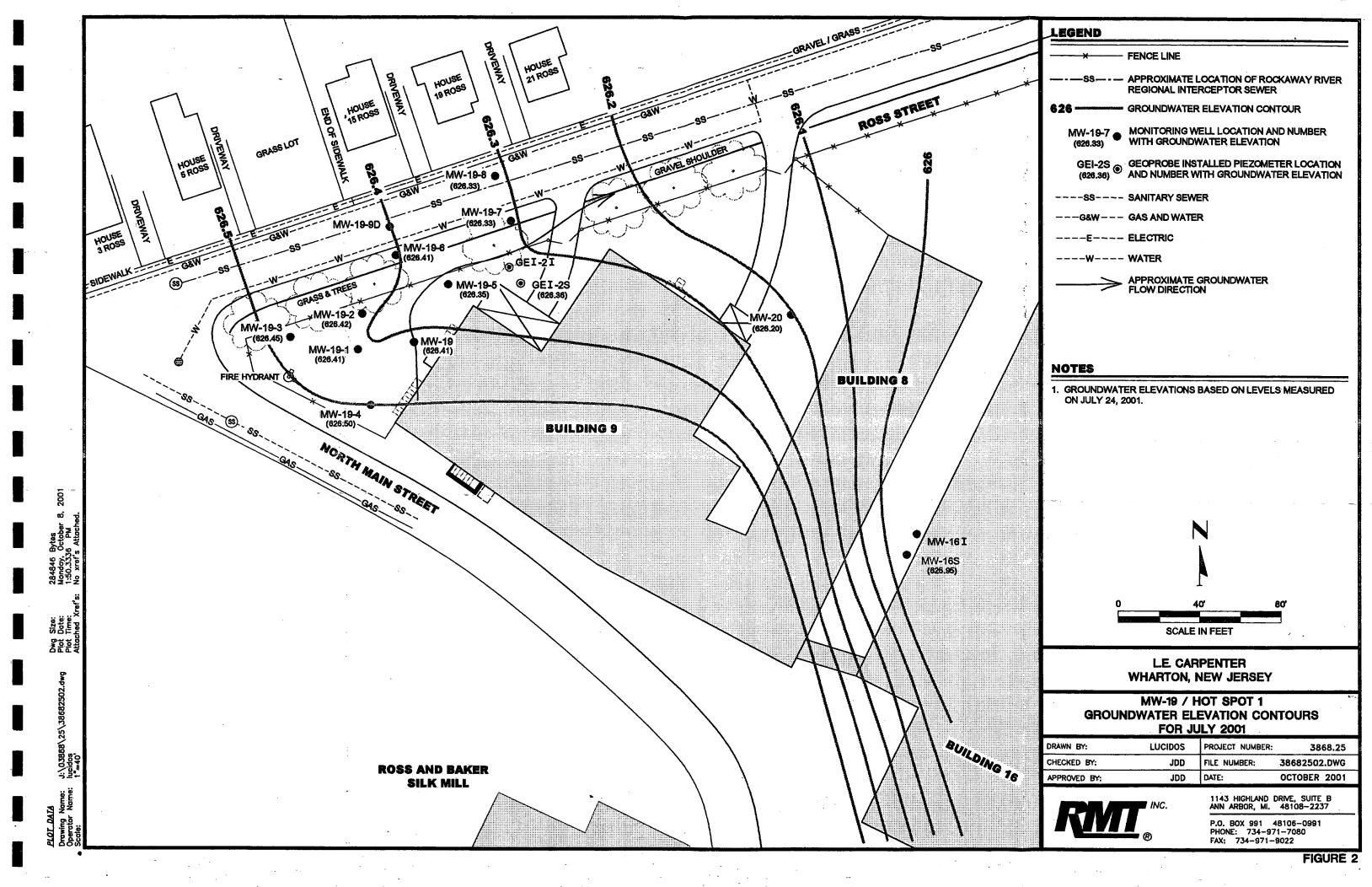


Figure 3

Isoconcentration Contours for Total BTEX (PPM) in Shallow Groundwater at the MW19/Hot Spot Area; August 2001.

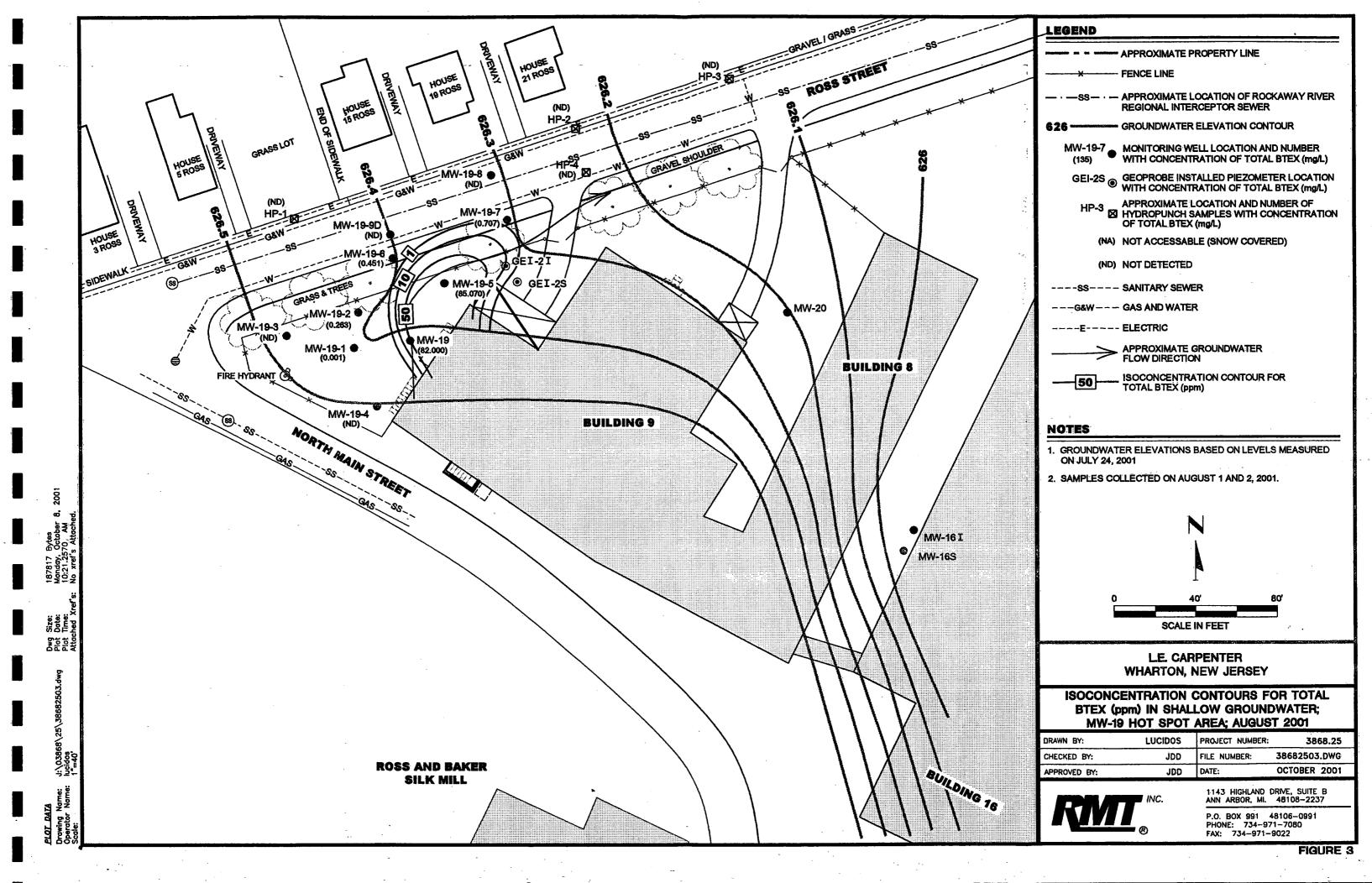
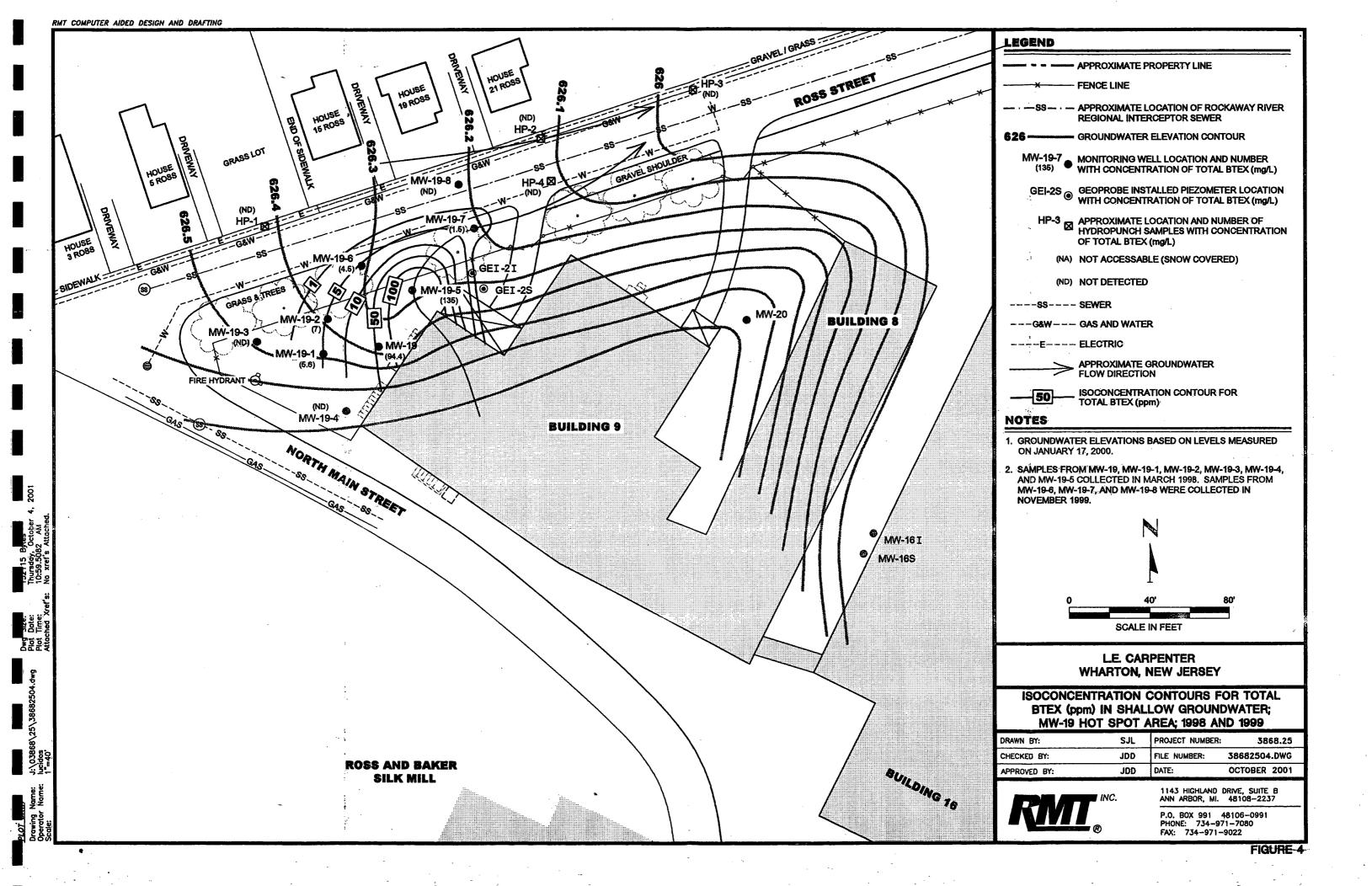


Figure 4

Isoconcentration Contours for Total BTEX (PPM) in Shallow Groundwater at the MW19/Hot Spot Area; 1998 and 1999.



Attachment 1

Report Certification

<u>REPORT CERTIFICATION</u> PURSUANT TO N.J.A.C. 7:26E-1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson
PRINTED NAME
Director, Environmental Services
TITLE
L.E. Carpenter & Company
COMPANY
Custopher Anderson
SIGNATURE
007 16, 2001
DATE

Attachment 2

Geologic and Well Completion Log for MW19-9D

			Ī	LOG O	F TEST	ВО	RING
	ant "	•					BORING NO. MW19-9D SHEET NO. 1 OF 1
PF	ROJECT	NAME			LI	EC	PROJECT NO. 3868.25
	LOCATION MW-19-9D, LEC						
1		CTOR					· · · · · · · · · · · · · · · · · · ·
DF	RILLING	METHOD			Air	rota	BOREHOLE DIA. 6 IN.
		SAMPLIN			į		VISUAL CLASSIFICATION
INT	ERVAL	RECOVE	RY	MOIST			AND GENERAL OBSERVATIONS
NO.	TYPE	PID (ppm)			DEPTH	 	4
		-					BLACKTOP & GRAVEL.
1	ss	26/14/11/10	12	NR	<u>-</u>	/	SAND (SP), medium grained, few coarse sand, cobbles, medium brown.
2	ss	12/22/10/9	6	NR	5		
3	ss	10/7/11/12	1	NR			
4	SS	2/10/11/1	4	NR	- - - ₹ 10		SAND AND GRAVEL (SP-GP), medium sand and gravel, medium brown.
5	ss	10/9/9/18	0	NR	¥ 10—	000	SAND AND GRAVEL (SP-GP), as above, wet.
					-	000	
		- -			15—	000	
		-			-		GRAVEL (GP), with silt, sand and cobbles,
		-			-		
		_			20	- S	SAND AND GRAVEL (SP-GP). yellowish brown, running.
					-	, , ,	
					25—	0,00	
		\vdash			-	, 0,	
					-	- - -	
					30-		
					1 -		
		Н				0.0	
		H			35-		End of boring at 35 feet below ground surface.
5		H				1	Zing at 30 100 100th growing during of
9		GENER	AL N		1		WATER LEVEL OBSERVATIONS
31	E STAR			7-10			WHILE DRILLING Q 10.0
BI DIAT		PLETED _		7-10	-01	 ·	AT COMPLETION ¥
al RIG				Rich		 .	AFTÉR DRILLING CAVE-IN: DATE/TIME NA DEPTH NA
LOC	GED	JPM	CHE	ECKED			WATER: DATE/TIME 7/10/01 DEPTH NA

•



Chimney Rock Road, Bldg. 9W Bound Brook, NJ 08805

Telephone:

(908) 722-4266 (800) 242-6648

- Toll Free:

(732) 356-1009

FAX: http://www.summitdrilling.com email: info@summitdrilling.com

WELL LOG

LL: MW19-9D

DATE DRILLED: 07/10/2001 COORD #1: 25.02.397

LENGTH:

COORD #2:

PERMIT #1: 25-58293

PERMIT #2:

COUNTY: Morris XSTREET: Ross Street

USE: Monitor

SAMPLING METHOD:

HOLE DIA: 8", 8"

TOTAL DEPTH: 35'

DRILLING METHOD: Auger

SITE: L. E. Carpenter & Co., 107 North Main St., , Wharton, NJ 07885 OWNER: L. E. Carpenter, 107 North Main Street, , Wharton, NJ 07885 NER CASING: S. Steel

OUTER CASING: DIAMETER:

SCREEN TYPE 1: S.Steel SCREEN TYPE 2: DIAMETER:

LENGTH 1: LENGTH 2:

SLOT SIZE:

10'

.020

LENGTH: ET WELL: DRILLER

AMETER:

351

2."

25'

RAVEL PK SZ: Morie #2

Jeff Segreaves SURFACE COMPLETION: M

GAL PER MIN: 1/2 STAT H20 LVL: 10'

DEVELOPMENT METHOD: pump DEVELOPMENT TIME: 1/2

CASING SEAL: Portland

OPEN HOLE:

DEPTH BELOW BLOWS PER 6" SURFACE ON SAMPLER

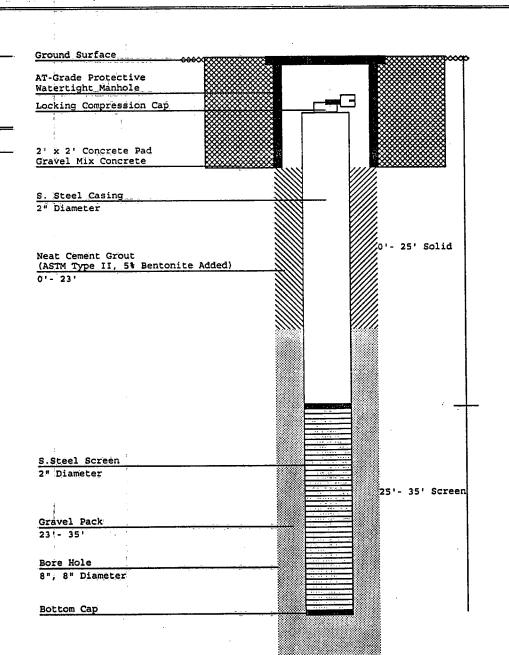
> 0' - 2' client 2' - 4' client 4' - 6' client 6' - 8' client 8' - 10' client

MARKS / SOILS IDENTIFICATION

1" Asphalt.

FROM - TO

35' Brown m/f sand boulders cobbles gravel.



Attachment 3
Well Permit, Monitoring Well Record & MW19-9D Form B Location Certification

2U-Sep-2001 02:20pm From-RMT INC	6108340490	T-626 P.002/004 F-865
WR-133M STATE OF NE	EW JERSEY	255829
DEPARTMENT OF ENVIRO	NMENTAL PROTECTION	2534
TRENTO		· 2558276 · 2558276
	· · · · · · · · · · · · · · · · · · ·	
MONITORING V	VELL PERMIT /2/	. 25 5 6 6 1-
Mail To:	/	Permit No.
VIDEP VALID ONLY AFTER API	PROVAL RY THE DEP	
SOREAU OF WATER ALLOCATION	110 1110 01 1111 0.2.1.	
BOX 426		01177990
ENTON, NJ 08625-0426	COORD #:	25.02.397
WHER LE CARPENTER 1 (O.		
	Driller Summit Dr	illing Ca., Inc.
ress 107 N. MAIN STREET	Address Central Jer	sey Industrial Park
	Chimney P	lock Road, Building 9W
WHANTON NJ 07885	Round Peo	ok, NJ 08805
		0X, NJ U88U5
e of Facility	Diameter of Well(s)	Proposed 35
Idress (SAME)	# of Wells	Will pumping equipment
Idress SAME	Applied for (max. 10)	be utilized? YES □ NO 🗡
	Type of Well	If Yes, give pump
	(see reverse) MON 1701	capacity cumulative GPM
LOCATION O	F WELL(S)	
Block #801 Municipality County MORRIS		
2 BOI WHARTON MORRIS	Draw sketch of well(s)) nearest roads,buildings, etc. with
State Atlas Map No		feet. Each well MUST be labeled
	with a name an	d/or number on the sketch.
40.56		120 MW 19-10
		720' 19-10
		MWI
1 2 3	• /	
1 2 3 ROSS STRE		
	10 NW19-9	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 1 000	
4 5 6	1 9 1	\ 8°
4 5 6		\ \ \
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	160	
\$ 5 6 PM ROSS NW19-9D		
	60'	
7 8 SI TE 9	65	
m.	$\setminus \mathcal{B}$	106
400 SL1		BLOG
40° 54/ No. MAIN ST.	The second secon	7 8 1 1
ONTORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED PLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:	ВУ	
		This Space for Approval Stamp
Spill Site		
ISRA Site		Will the
CERCLA (Superfund) Site		WELL PERMIT APPROVED
RCRA Site	CASE I.D. Number	N.J.D.E.P.
Underground Storage Tank Site		
Operational Ground Water Permit Site		JUN 4 2001
Pretreatment and Residuals Site.		JUN 4 2001
Water and Hazardous Wasse Enforcement Case		
Water Supply Aquifer Test Observation Well	N MAROCALION .	BUREAU OF WATER ALL
Other (explain)SUPERFULO SITE		BUREAU OF WATER ALLOCAT
OP. Cl.	- 1 1 2 72	
OR Issuance of this permit is subject to the conditions attached. (see next page)	The well(s) may not be complet	ted with more than 25 feet of total screen
For monitoring purposes only	or uncased porchole.	
RSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.		
ompliance with NJ.S.A.58: 4A-14, application is made for a permit to drill a well as described above.	/	* * * * * * * * * * * * * * * * * * *
5-31-01 Signature of Driller	1051	Registration No. 11544
	1 7	Registration No.
MT Signature of Property Owner	John M	chalich (ns)
COPIES: Water Allocuiton - White Health D.	epi Yellow Owner - Blue Drill	ler - White
to the control of the	Diagram - Diagra	

R-138 ...

New Jersey Department of Environmental Protection

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58293

Burea	u of \	Nater	Allo	cation	

	Duie	au o	I AAG	スピローア	าแบบส	UUI	
MON	ITO	RIN	GI	ŴĘI	I P	FC	ORI

				III NO					
WNER IDENTIFICATION - Owner			Atlas Shee	et Coordina	tes <u>25</u> :02	397			
VNER IDENTIFICATION - Owner	LE CARTENTER & CO	i	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				
dressig7_H, HATH (State				Zip Code	* ** ** **			
ELL LOCATION - If not the same as ow untyMORRIS dress107_H_MAIN_SIREET	vner please give address. Municipality ;	Owner's	s Well No 2009 — Lot	No.	MW19-5 Block N	10			
	*			DATE WEL	L STARTED 7 DMPLETED 7	/ , 10 / , 01			
PE OF WELL (as per Well Permit Cate	egories) <u>ноиттовтив</u>				•	100			
gulatory Program Requiring Well			Case I.I	D.#					
DNSULTING FIRM/FIELD SUPERVISO	DR (if applicable) RMT, Inc	D.	· · · · · · · · · · · · · · · · · · ·		Tele. #				
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter		Wgt./Rating			
al depth drilledft.	from land surface	Top (ft.)	Bottom (ft.)		Material	(lbs/sch no.)			
al depth drilledft.	Single/Inner Casing	0'	25'		5. Steel				
rehole diameter:	Middle Casing	U	<u> </u>	2"	J. Steel	sch 40			
Top $\frac{8^n}{}$ in. Bottom $\frac{8^n}{}$ in.	(for triple cased wells only)								
Bottom <u>8"</u> in.	Outer Casing		*						
ell was finished: 🔲 above grade	(largest diameter)					1			
flush mounted nished above grade, casing height (stick	Open Hole or Screen (No. Used)	25'	35	2"	S. Steel	.0:20 sch.40			
above land surface ft.	Blank Casings (No. Used)								
s steel protective casing installed? Yes ⊠ No	Tail Piece								
atic water level after drilling 10' ft.	Gravel Pack					 			
ater level was measured using <u>Tabe</u>	GIAVELL BOX	53,	35'		Morie #2	lbs			
ell was developed for 1/2 hours	Grout	O'	23'		Neat Cement Bentonite	976 lbs			
gpm	G	routing M	ethod <u>tremi</u>	P.					
ethod of development <u>pump</u>	D	rilling Me	thod <u>Auge</u>	<u>r</u>					
as permanent pumping equipment installed	? []Yes)[No								
ımp capacitygpm	<u> </u>	Alaka a		GEOLO	GIC LOG				
ump type:	*	forma		ere water w	as encountered in	consolidated			
rilling FluidType	of Rig <u>5-5</u>								
ealth and Safety Plan submitted? 🖄 Yes [¬ No		See Att	ached					
evel of Protection used on site (circle one)									
I certify that I have constructed the a accordance with all well permit requ State rules and regu	irements and applicable								
rilling Company <u>gurffu t well br</u>	LLING CO INC.	-		h					
ell Driller (Print)	!		AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)						
riller's Signature	reaver				INATE IN US SUF	VEY FEET			
egistration No	Date 6 / 1 /21	LATITUI	0		EASTING: DR LONGITUDE:	o ,			
COPIES: White - DE	P Canany - Driller		Owner		d - Health Dent				

MONITORING WELL CERTIFICATION FORM B LOCATION CERTIFICATION

Name of Owner: L.E. Carpenter & Company Name of Facility: L.E. Carpenter & Company Location: 170 North Main Street, Wharton, NJ 07885 Case Number(s): SRP# 002168748 (UST #, ISRA #, Incident #, or EPA #	f)
LAND SURVEYOR'S CERTIFICATION Well Permit Number: (This number must be permanently affixed to - the well casing.) _2_55_8_2_9_3	
Owners Well Number (As shown on application or plans): MW-19-9D	
Geographic Coordinates NAD 83 (to nearest 1/10 of second):	
Longitude: West: 74°34'42.412" Latitude: North 40°54'17.938"	
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:	
North 754590 East 470442	
Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'):	```
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum used, identify, here, assumed datum of 100', and give approximated actual elevation.)	ı is
Bench Mark NGS U 18 (681.78 NAVD 88) (682.52 NGVD 29)	
Significant observations and notes All elevations are on NGVD 29 to comform to the existing well	s
AUTHENTICATION	
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of these individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false inaccurate and complete information and I am committing a crime in the fourth degree if I make a false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.	nt
SEAL	į
PROFESSIONAL LAND SURVEYOR' SIGNATURE 8/31/0/ DATE	

<u>James M. Stewart Lic # GS26108</u>
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER

9622 Evans Street, Philadelphia, PA 19115 215 969 1577
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

Attachment 4
Laboratory Analytical Data

09/19/2001

RMT 527 Plymouth Road Suite 406 Plymouth Meeting, PA 19462

Attention: Mr. John Mihalich



STL Edison

777 New Durham Road Edison, NJ 08817

Tel: 732-549-3900 Fax: 732-549-3679 www.stl-inc.com

Laboratory Results
Job No. N374 - LEC

Dear Mr. Mihalich:

Enclosed are the results you requested for the following sample(s) received at our laboratory on August 3, 2001.

,, 2001.		
Lab No.	Client ID	Analysis Required
292462	MW19	BTEX(GC/MS) DEHP
292463	MW19-1	BTEX(GC/MS) DEHP
292464	MW19-2	BTEX(GC/MS) DEHP
292465	MW19-3	BTEX(GC/MS) DEHP
292466	MW19-4	BTEX(GC/MS) DEHP
292467	MW19-5	BTEX(GC/MS) DEHP
292468	MW19-6	BTEX(GC/MS) DEHP
292469	MW19-7	BTEX(GC/MS) DEHP
292470	MW19-8	BTEX(GC/MS) DEHP





STL Edison 777 New Durham Road Edison, NJ 08817

Tel: 732-549-3900 Fax: 732-549-3679 www.stl-inc.com

Laboratory Results
Job No. N374 - LEC (cont'd)

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Lab No.	Client ID	Analysis Required
292471	MW19-9D	BTEX(GC/MS) DEHP
292472	Trip_Blank	BTEX(GC/MS)
292473	DUPE-01	BTEX(GC/MS) DEHP
292474	FB-01	BTEX(GC/MS) DEHP
292475	FB-2	BTEX(GC/MS) DEHP

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Robin Dean, at (732) 549-3900.

Very Truly Yours,

Michael J. Urban Laboratory Director



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Spike Recovery Summary	148
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Analytical Results Summary

N374

Client ID: MW19 Site: LEC

Lab Sample No: 292462 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33400.d

Matrix: WATER Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 500.0

	. :	Analytical Result	Method Detection Limit
<u>Parameter</u>	:	Units: ug/l	<u>Units: ug/l</u>
Benzene		ND	95
Toluene		62000	90
Ethylbenzene		3000	95
Xylene (Total)		17000	95

Client ID: MW19-1

Site: LEC

Lab Sample No: 292463 Lab Job No: N374

Date Sampled: 08/02/01

Date Received: 08/03/01 Date Analyzed: 08/11/01

GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33403.d

Matrix: WATER

Level: LOW Purge Volume: 5.0 ml Dilution Factor: 1.0

<u>Parameter</u>			Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene Toluene	•	,	ND ND	0.2 0.2
Ethylbenzene Xylene (Total)) 	1.2 ND	0.2 0.2

Client ID: MW19-2

Site: LEC

Lab Sample No: 292464 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01

Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33404.d

Matrix: WATER

Level: LOW Purge Volume: 5.0 ml Dilution Factor: 2.0

<u>Parameter</u>	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene	ND	0.4
Toluene	160	0.4
Ethylbenzene	21	0.4
Xylene (Total)	82	0.4

Client ID: MW19-3 Site: LEC

Lab Sample No: 292465 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33405.d

Matrix: WATER Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 1.0

Parameter	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene Toluene Ethylbenzene Xylene (Total)	ND ND ND	0.2 0.2 0.2 0.2

Client ID: MW19-4

Site: LEC

Lab Sample No: 292466 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33406.d

Matrix: WATER Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 1.0

Parameter		Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene	•	ND	0.2
Toluene		ND	0.2
Ethylbenzene		ND	0.2
Xylene (Total)		ND	0.2

Site: LEC

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33407.d

Lab Sample No: 292467 Lab Job No: N374

Matrix: WATER

Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 1000.0

<u>Parameter</u>		Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene Toluene		ND 79000	190 180
Ethylbenzene Xylene (Total)	- - - -	870 5200	190 190

Site: LEC

Lab Sample No: 292468 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i

Lab File ID: v33408.d

Matrix: WATER Level: LOW Purge Volume: 5.0 ml Dilution Factor: 2.0

<u>Parameter</u>	 	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene	á	ND	0.4
Toluene		390	0.4
Ethylbenzene		14	0.4
Xylene (Total)		47	0.4

Site: LEC

Lab Sample No: 292469 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33409.d

Matrix: WATER Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 2.0

<u>Parameter</u>	Analytical Result <u>Units: uq/l</u>	Method Detection Limit <u>Units: ug/l</u>			
Benzene	6.7	0.4			
Toluene	13	0.4			
Ethylbenzene	6.6	0.4			
Xylene (Total)	680	0.4			

Site: LEC

Lab Sample No: 292470 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01

Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33410.d

Matrix: WATER Level: LOW Purge Volume: 5.0 ml Dilution Factor: 1.0

<u>Parameter</u>	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene	0.5	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Site: LEC

Lab Sample No: 292471 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01

Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33411.d

Matrix: WATER Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 1.0

<u>Parameter</u>	Analytical Result <u>Units: uq/l</u>	Method Detection Limit <u>Units: ug/l</u>			
Benzene	ND	0.2			
Toluene	ND	0.2			
Ethylbenzene	ND	0.2			
Xylene (Total)	ND	0.2			

Client ID: Trip_Blank Site: LEC

Date Sampled: 07/30/01 Date Received: 08/03/01

Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33412.d

Lab Sample No: 292472 Lab Job No: N374

Matrix: WATER Level: LOW Purge Volume: 5.0 ml Dilution Factor: 1.0

<u>Parameter</u>	4 4	Analytica <u>Units:</u>	Method Detection Limit <u>Units: ug/l</u>				
Benzene Toluene Ethylbenzene Xylene (Total)			ND ND ND ND	0.2 0.2 0.2 0.2			

Client ID: DUPE-01

Site: LEC

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33413.d

Lab Sample No: 292473 Lab Job No: N374

Matrix: WATER

Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 2.0

Parameter		i i ii	Analytical Result Units: ug/l	Method Detection Limit <u>Units: uq/l</u>				
Benzene Toluene Ethylbenzene Xylene (Total)	٠.		ND 260 9.5 38	0.4 0.4 0.4 0.4				

Client ID: FB-01

Site: LEC

Lab Sample No: 292474

Lab Job No: N374

Matrix: WATER

Level: LOW

Date Sampled: 08/01/01

Date Received: 08/03/01 Date Analyzed: 08/11/01

GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33414.d

Dilution Factor: 1.0

Purge Volume: 5.0 ml

<u>Parameter</u>	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>				
Benzene	ND	0.2				
Toluene	0.7	0.2				
Ethylbenzene	ND	0.2				
Xylene (Total)	ND	0.2				

Client ID: FB-2

Site: LEC

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Analyzed: 08/11/01 GC Column: DB624 Instrument ID: VOAMS7.i Lab File ID: v33415.d

Lab Sample No: 292475

Lab Job No: N374

Matrix: WATER

Level: LOW

Purge Volume: 5.0 ml Dilution Factor: 1.0

Parameter	Analytical Result <u>Units: ug/l</u>	Method Detection Limit <u>Units: ug/l</u>
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: MW19

Site: LEC

Lab Sample No: 292462 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/17/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9843.d

Matrix: WATER Level: LOW Sample Volume: 970 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Parameter

bis(2-Ethylhexyl)phthalate

Analytical Result Units: uq/l

2.9

Method Detection Limit Units: uq/l

Site: LEC

Lab Sample No: 292463 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/13/01 GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9778.d

Matrix: WATER Level: LOW

Sample Volume: 980 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Method Detection Limit Analytical Result Units: uq/l Units: ug/l **Parameter** 0.4 bis(2-Ethylhexyl)phthalate 85

Site: LEC

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/13/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9779.d

Lab Sample No: 292464 Lab Job No: N374

Matrix: WATER Level: LOW

Sample Volume: 970 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis(2-Ethylhexyl)phthalate

Analytical Result Units: ug/l

16

Limit Units: uq/l

Method Detection

Site: LEC

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/13/01

GC Column: DB-5

Instrument ID: BNAMS3.i Lab File ID: t9780.d

Lab Sample No: 292465 Lab Job No: N374

Matrix: WATER Level: LOW Sample Volume: 950 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Parameter

bis (2-Ethylhexyl) phthalate

Analytical Result Units: uq/l

Method Detection Limit Units: uq/1

Site: LEC

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01

Date Analyzed: 08/14/01 GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9781.d

Lab Sample No: 292466 Lab Job No: N374

Matrix: WATER Level: LOW

Sample Volume: 950 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis(2-Ethylhexyl)phthalate

Analytical Result Units: uq/l

ND

Method Detection Limit Units: uq/l

Site: LEC

Lab Sample No: 292467 Lab Job No: N374

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/17/01

GC Column: DB-5

Instrument ID: BNAMS3.i Lab File ID: t9844.d

Matrix: WATER Level: LOW

Sample Volume: 970 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis(2-Ethylhexyl)phthalate

Analytical Result Units: ug/l

3.2

Limit Units: uq/l

Method Detection

Site: LEC

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01

Date Analyzed: 08/14/01 GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9782.d

Lab Sample No: 292468 Lab Job No: N374

Matrix: WATER Level: LOW

Sample Volume: 950 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Method Detection Analytical Result Limit Parameter Units: uq/l <u>Units: ug/l</u> 0.5 bis(2-Ethylhexyl)phthalate 28

Site: LEC

Parameter

Lab Sample No: 292469 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/17/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9845.d

Matrix: WATER Level: LOW

Sample Volume: 980 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Analytical Result Units: ug/l

Method Detection Limit Units: uq/l

bis (2-Ethylhexyl) phthalate

ND

Site: LEC

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01

Date Analyzed: 08/14/01 GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9783.d

Lab Sample No: 292470 Lab Job No: N374

Matrix: WATER

Level: LOW Sample Volume: 980 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis (2-Ethylhexyl) phthalate

Analytical Result Units: uq/l

ND

Method Detection Limit Units: uq/l

Site: LEC

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/14/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9784.d

Lab Sample No: 292471 Lab Job No: N374

Matrix: WATER Level: LOW

Sample Volume: 960 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

Parameter

bis(2-Ethylhexyl)phthalate

Analytical Result Units: uq/l

0.5

Method Detection Limit Units: ug/l

Client ID: DUPE-01

Site: LEC

Lab Sample No: 292473 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/14/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9785.d

Matrix: WATER Level: LOW

Sample Volume: 950 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis(2-Ethylhexyl)phthalate

Analytical Result Units: uq/l

36

Method Detection Limit Units: ug/l

Client ID: FB-01

Site: LEC

Lab Sample No: 292474 Lab Job No: N374

Date Sampled: 08/01/01 Date Received: 08/03/01 Date Extracted: 08/07/01

Date Analyzed: 08/14/01 GC Column: DB-5 Instrument ID: BNAMS3.i

Lab File ID: t9786.d

Matrix: WATER Level: LOW

Sample Volume: 910 ml Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis (2-Ethylhexyl) phthalate

Analytical Result Units: ug/l

ND

Method Detection Limit Units: uq/l

Client ID: FB-2

Site: LEC

Date Sampled: 08/02/01 Date Received: 08/03/01 Date Extracted: 08/07/01 Date Analyzed: 08/14/01

GC Column: DB-5 Instrument ID: BNAMS3.i Lab File ID: t9787.d

Lab Sample No: 292475 Lab Job No: N374

Matrix: WATER Level: LOW

Sample Volume: 960 ml

Extract Final Volume: 2.0 ml

Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS METHOD 625

<u>Parameter</u>

bis(2-Ethylhexyl)phthalate

Analytical Result Units: uq/l

2.4

Method Detection Limit Units: uq/l

General Information

Chain of Custody

STL EDISON

777 New Durham Road

CHAIN OF CLISTODY / ANALYSIS REQUEST

Edison, New Jersey 08817 Phone: (732) 549-3900 Fax: (732) 549-39		101 000)		AL I SIS I	(LQUL	01	PAGE OF
Name (for report and invoice) Bhu Mi hal	jc4 Sample	ers Name (Print	ed) 14a	lich	Site/Project Ide	ntlfication		
Company RMT	P.O. #				State (Location			Other:
			,		Regulatory Prog		pertune	
Address 27 Almam	Rd Analysis Standar	Turnaround Time	l,	ANALYSIS REQU	ESTED (ENTER X BEL	OW TO INDICATE F	(EQUEST)	LAB USE ONLY Project No:
City Plynam Ma	State 19462 Rush Ch	arges Authorized For:		M				Job No:
Phone / 6/08:	1 Wee	==	K	加州	111			<u>N374</u>
Sample Identification	Date Time	No.	· 1			14		Sample Numbers
MW19	8-2-01 1457			<u> </u>				292462
MW19-1	11 1108		15					292463
MW19-2	8-1-01 (835							292464
MW19-3	8-2-01 933							292465
MW19-4	8-2-01 1306							292466
MW19-5	8-2-01							292467
MW19-6	8-1-01 1315							292468
MW19-7	8-1-01 1542							292469
MW19-8	8-1-01 1728							292470
MW19-9D	8-1-0/1155		7 7	∇				292471
Preservation Used: 1 = ICE, 2 = HCl, 3	$S = H_2SO_4$, $A = HNO_3$, $S = N_3$	OH S	oil:					
6 = Other	7 = Other	Wat	er:					
Special Instructions						W	/ater Metals Filtere	
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Relinquished by	Samedison SJ Ralph Head	Date / Ti	1120	Received by	1100	D ,	Company	
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Laboratory Certifications:

New Jersey (12028),

New York (11452),

Pennsylvania (68-522),

Connecticut (PH-0200), Rhode Island (132).

STL EDISON

777 New Durham Road

dison, New Jersey 08817	CHAIN OF CUSTOUT / ANALYSIS REQUI
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Phone: (732) 549-3900 Fax: (732) 549-3679	e							•								PAGE COF
Name (for report and invoice) Mihalich Samplers Name (Printed) Samplers Name (Printed) Shn Mihalich						Site/Project Identification										
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R/W								Regu	latory	Progra	m;	<u>57</u>	pe	Au	ine	
Address 527 Plymorth	h Rd	Analysis Turnaround Time ANALYSIS REQUE			JESTED (ENTER 7	C BELOV	V TO IND	KATE P	EQUEST	T	7	LAB USE ONLY Project No:			
	DA 19462		ges Authoriz	ed For:		χ/ς	2									Job No:
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Sample Identification	Date	Time	Matrix	No. of. Cont.	<u> </u>	2	<u>L</u>					_		Ш		Sample Numbers
TRIP BLANK	7/30/01		W	ત	X											292472
DUPE-01		<u> </u>	7	4	X	X		ŀ								292473
FB-01	8-1-01	1420		3	X	X										292474
FR-2	8-2-01	1120	V	4	X	X				,		-				292475
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Preservation Used: 1 = ICE, 2 = HCl, 3 =		, J - Na	On	Water:	-		-	+	 					\vdash		
6 = Other	, / = Other			water.		<u> </u>		٠				l				
Special Instructions	-											. W	ater M	letals F	iltered	(Yes/No)?
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Laboratory Chronicles

777 New Durham Road, Edison, New Jersey 08817

Job No: N374

Site: LEC

Client:

RMT/Four Nines

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
292462	8/2/2001	8/3/2001			8-11-01	DRL	5841
292463	8/2/2001	8/3/2001					
292465	8/2/2001	8/3/2001		٠.			
292466	8/2/2001	8/3/2001			1		
292467	8/2/2001	8/3/2001			f	1	
292475	8/2/2001	8/3/2001	•		8-11-01	DRL	5819

AND LABORATORY CHRONICLE STL Edison

777 New Durham Road, Edison, New Jersey 08817

Job No: N374

Site: LEC

Client:

RMT/Four Nines

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
292464	8/1/2001	8/3/2001	: 		8-11-01	DRL	58,4/
292468	8/1/2001	8/3/2001	i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
292469	8/1/2001	8/3/2001	h			1	
292470	8/1/2001	8/3/2001					1 .
292471	8/1/2001	8/3/2001					- 1
292473	8/1/2001	8/3/2001		•			
292474	8/1/2001	8/3/2001		•	L	L	1

777 New Durham Road, Edison, New Jersey 08817

Job No: N374

Site: LEC

Client:

RMT/Four Nines

VOAMS

WATER - 624

Date Date Preparation Technician's Analysis Analyst's QÁ Batch Sampled Received Date Name Date Name Lab Sample ID 5841 8-11-01 DRI 292472 7/30/2001 8/3/2001

777 New Durham Road, Edison, New Jersey 08817

Job No: N374

Site: LEC

Client:

RMT/Four Nines

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
292462	8/2/2001	8/3/2001	\$ 701	JCR	81701	EM	6549
292463	8/2/2001	8/3/2001			81301	WB	
292465	8/2/2001	8/3/2001		10	1		
292466	8/2/2001	8/3/2001		· · ·	8-14-01	4	
292467	8/2/2001	8/3/2001			8-17-01	6M	
292475	8/2/2001	8/3/2001	√	V	8-4-01	WB	Ψ

777 New Durham Road, Edison, New Jersey 08817

Job No: N374

Site: LEC

Client:

RMT/Four Nines

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
292464	8/1/2001	8/3/2001	8.07.01	JCR	8-1301	we	6549
292468	8/1/2001	8/3/2001	1		8-Kt-01	1	
292469	8/1/2001	8/3/2001		1	8-17-01	EM	
292470	8/1/2001	8/3/2001			8-H-d	WB.	
292471	8/1/2001	8/3/2001	:				•
292473	8/1/2001	8/3/2001				}	
292474	8/1/2001	8/3/2001		V	7	1	V

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A Flame Atomic Absorption
- F Furnace Atomic Absorption
- CV Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

		Test Method	Solid	Test Method
Element	Flame		Flame	Furnace
Aluminum	202.1	202.2	7020	
Antimony	204.1	204.2	7040	7041
Arsenic		206.2		7060
Barium	208.1	+ -	7080	
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	÷÷,	7140	
Chromium, Tot	al 218.1	218.2	7190	7191
Chromium, (+6) 218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	
Iron	236.1	236.2	7380	
Lead	239.1	239.2	7420	7421
Magnesium	242.1		7450	
Manganese	243.1	243.2	7460	
Nickel	249.1	249.2	7520	
Potassium	258.1		7610	
Selenium	·	270.2		7740
Silver	272.1	272.2	7760	
Sodium	273.1		7770	
Tin	283.1	283.2	7870	÷-
Thallium	279.1	279.2	7840	7841
Vanadium	286.1		7910	7911
Zinc	289.1	289.2	7950	

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

DATA REPORTING QUALIFIERS

- ND The compound was not detected at the indicated concentration.
 - J Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
 - B The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
 - P For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
 - * For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Non-Conformance Summary

N374

NON-CONFORMANCE SUMMARY

STL Edison Job Number: N349

Volatile Organics Analysis: All data conforms with method requirements	·
Analysis was not requested; or Non-conformance for the specific gamples listed is as follows: (Methor 624: OA BACCH SEH) MCONER of Tolkere is at the MS due to high levely a Tolkere in the Waster Smoth. But to receive meet of limits See continuation page if checked () Base/Neutral and/or Acid Extractable Organics Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows: See continuation page if checked () PCBs and/or Organochlorine Pesticides Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows:	Volatile Organics Analysis:
Non-conformance for the specific samples listed is as follows: (Mertho G24: OA (ATCH 554)) NeCree of Tolkere is Outs of OC limits in the MS due to high Length of Tolkere in the twopies Sample. Blank Spite Necreives Meet OC limits See continuation page if checked () Base/Neutral and/or Acid Extractable Organics Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows: See continuation page if checked () PCBs and/or Organochlorine Pesticides Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows:	
(Mertho G24: OA BATCH SEU) ACCOUNT OF TOWNER IS OUTS OF OCCUMENTS: He MS Sue to high levels a Toluene in the washes supple. Black site recovered Meet OC limits See continuation page if checked () Base/Neutral and/or Acid Extractable Organics Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows: See continuation page if checked () PCBs and/or Organochlorine Pesticides Analysis: All data conforms with method requirements; or Analysis was not requested; or Non-conformance for the specific samples listed is as follows:	Analysis was not requested; or
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See continuation page if checked ()	Non-conformance for the specific samples listed is as follows:
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Page 1 of 2	Page 1 of Z

N374

Non-conformance Sum STL Edison Job Numb	mary, Page 2 of Corrections of the correction of
Metals Analysis:	
Analysis was not re	rith method requirements; or equested; or the specific samples listed is as follows:
	See continuation page if checked (
Total Petroleum Hyd	rocarbons Analysis:
Analysis was not re	rith method requirements; or equested; or the specific samples listed is as follows:
THE SAME AS A SAME A	See continuation page if checked (
General Chemistry/D	isposal Analysis:
Analysis was not re	ith method requirements; or quested; or the specific samples listed is as follows:
	See continuation page if checked (
Signature of Laboratory Manager:	Cumuland 9-19-01